

Attorney's Docket No. 30208.240386

**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



re: Gao et al. Confirmation No.: 1829  
 Appl. No.: 10/040,047 Group Art Unit: 1741  
 Filed: October 29, 2001  
 For: POSITIVE ELECTRODE ACTIVE MATERIALS FOR SECONDARY  
 BATTERIES AND METHODS OF PREPARING SAME

March 1, 2002

Commissioner for Patents  
 Washington, DC 20231

**PRELIMINARY AMENDMENT**

Sir:

Please amend the above-identified application as follows:

In the Claims:

Please cancel Claim 1, without prejudice.

2. (Rewritten) A positive electrode active material for secondary lithium and lithium-ion batteries comprising:

at least one electron conducting compound having the formula  $\text{LiM}^1_{x-y}\{\text{A}\}_y\text{O}_z$  wherein  $\text{M}^1$  is a transition metal;  $\{\text{A}\}$  is represented by the formula  $\sum w_i \text{B}_i$  wherein  $\text{B}_i$  is an element other than  $\text{M}^1$  used to replace the transition metal  $\text{M}^1$  and  $w_i$  is the fractional amount of element  $\text{B}_i$  in the total dopant combination such that  $\sum w_i = 1$ ;  $\text{B}_i$  is a cation in  $\text{LiM}^1_{x-y}\{\text{A}\}_y\text{O}_z$ ;  $0.95 \leq x \leq 1.05$ ;  $0 \leq y \leq x/2$ ; and  $1.90 \leq z \leq 2.10$ ; and

at least one electron insulating and lithium ion conducting lithium metal oxide selected from the group consisting of  $\text{LiAlO}_2$  and  $\text{Li}_2\text{M}^2\text{O}_3$ , wherein  $\text{M}^2$  is at least one tetravalent metal selected from the group consisting of Ti, Zr, Mn, Mo, Si, Ge, Hf, Ru and Te.

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**TC 1700**

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